UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/470,444	12/22/1999	ANURAG SRIVASTAVA	A-67321	6154

7590   05/19/2005

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EXAMINER
NGUYEN, CINDY

ART UNIT	PAPER NUMBER
2161	

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>22 December 1999</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-19* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *12-19* is/are allowed.

6)☒ Claim(s) *1* is/are rejected.

7)☒ Claim(s) *2-11* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>22 December 1999</u> is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date <u>05/10/2000</u>.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

This is in response to application filed on December 22, 1999 in which claims 1-19 are presented for examination.

Information Disclosure Statement

The information disclosure statement filed on May 10, 2000 is in compliance with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609. Because it has been placed in the application file, and the information referred to therein has been considered as to the merits.

Drawings

Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jerome et al.

"Bump Hunting in High-Dimensional data" provided by Applicant.

Regarding claim 1, Jerome discloses: a computer system having a large disk resident data set, a method of analyzing the disk resident data set using a patient rule induction method (PR1M), comprising steps of:

(a) receiving a meta parameter and a relational data table comprised of continuous attributes, discrete attributes and a cost attribute, wherein the cost attribute represents cost output values based on continuous attributes values and discrete attribute values as inputs (page 18, table 15.1, Jerome);

(b) defining a hyper-rectangle enclosing a multi-dimensional space defined by the continuous attribute values and the discrete attribute values, wherein the continuous attribute values and the discrete attribute values are represented as points within the multi-dimensional Space (pages 11-12, section 10, Jerome);

(c) removing a plurality of points along edges of the hyper-rectangle based on an average of the cost output value from the plurality of points until a count of the points enclosed within the hyper-rectangle equals the meta parameter (pages 7-8, section 7.1, Jerome); and

(d) adding removed discrete attribute value points and the continuous attribute value points along the edges of the hyper-rectangle until a sum of the cost output values over the multi-dimensional space enclosed by the hyper-rectangle changes (pages 7-8, section 7.2, Jerome).

Allowable Subject Matter

Claims 2-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record failed to discloses: In a computer system having a large disk resident data set, a method of analyzing the disk resident data set using a patient rule induction method (PRIM), comprising steps of wherein the continuous attributes are Ac continuous attributes, the discrete attributes are Ad discrete attributes and the meta parameter further including steps of comprising steps of separating the data into Ac+2 lists, such that a list is generated for each continuous attribute to form Ac continuous attribute lists containing the continuous attribute values, a discrete attribute list containing the Ad discrete attribute and the discrete attribute values and a cost attribute list containing the cost output value as recited in claim 2.

Claims 3-11 are depended on claim 2, therefore they are also object able.

Claims 12-19 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record failed to discloses: In a parallel architecture computer system having a large disk resident data set, a method of analyzing the disk resident data set using a patient rule induction method (PRIM), comprising steps of separating the data into Ac+2 lists, such that a list is generated for each continuous attribute to form Ac continuous attribute lists containing the continuous attribute values, a discrete attribute list containing the Ad

discrete attribute and the discrete attribute values and a cost attribute list containing the

cost output value as recited in claims 12 and 16.

Claims 13-15 and 17-19 are depended on claims 12 and 16, therefore they are

also allowable.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Cindy Nguyen whose telephone number is 571-272-4025. The

examiner can normally be reached on M-F: 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9306 for regular

communications and 703-872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-3900.

FRANTZ COBY
PRIMARY EXAMINER

Cindy Nguyen
May 3, 2005